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PTO/SB/05 (03-01)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

3994994-131915 Attorney Docket No. Ting He First Inventor

Title Substrates with Small Particle

Express Mail Label No. EL749133655US

ew nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS APPLICATION ELEMENTS ADDRESS TO: Box Patent Application					
See MPEP chapter 600 cond	cerning utility patent application contents.	ADDRESS TO: Box Patent Application Washington, DC 20231			
Fee Transmittal F	OTM (e.g., PTO/SB/17) duplicate for fee processing)	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)			
2. See 37 CFR 1.27.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)			
3. Specification (preferred errangement		a. Computer Readable Form (CRF)			
- Descriptive title - Cross Reference	of the invention te to Related Applications	b. Specification Sequence Listing on:			
- Statement Reg	arding Fed sponsored R & D	I. U CD-ROM or CD-R (2 copies); or			
	equence listing, a table, program listing appendix	c. Statements verifying Identity of above copies			
- Brief Summary	of the Invention	ACCOMPANYING APPLICATION PARTS			
- Brief Descriptio - Detailed Descri	n of the Drawings (if filed)	9. Assignment Papers (cover sheet & document(s))			
- Claim(s)	P 40.	37 CFR 3 73/h) Statement Power of			
- Abstract of the	Disclosure	10. (when there is an assignee) Attorney			
4. X Drawing(s) (35 U	I.S.C. 113) [Total Sheets 5]	11. English Translation Document (if applicable)			
5. Oath or Declaration	[Total Pages]	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449			
a. Newty exec	uted (original or copy)	13. Preliminary Amendment			
b. Copy from a (for continua	prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 completed)	14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
	ION OF INVENTOR(S) Itement attached deleting inventor(s)	15. Certified Copy of Priority Document(s) (If foreign priority is claimed)			
	the prior application, see 37 CFR and 1.33(b).	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(I). Applicant must attach form PTO/SB/35			
6. Application Data	Sheet. See 37 CFR 1.76	or its equivalent. 17. Other:			
18. If a CONTINUING APPLI	CATION, check appropriate box, and sup	ply the requisite information below and in a preliminary amendment,			
or in an Application Data She		, ,			
Continuation	Divisional X Continuation-in-part (CIP)	of prior application No.:			
Prior application Information: Examiner Group Art Unit:					
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.					
19. CORRESPONDENCE ADDRESS					
Customer Number or Bar Code Label Jinself Gustomer Nicostomer Nic					
Name	Edwin M. Baranowski				
	Porter Wright Morris	& Arthur LLP			
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City	Columbus	State Ohio Zip Code 43215			
Country	USA Te	ephone 614-227-2188 Fax 227-2100			
Name (Print/Type)	Edwin M. Baranowski	Registration No. (Attorney/Agent) 27,482			
Signature Elwo M. Barmowski Date 24 July 01					

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Edwin M. Baranowski Patents and Trademarks 614-227-2188 ebaranowski@porterwright.com 41 South High Street Columbus, Ohio 43215-6194

Facsimile: 614-227-2100 Toll Free: 800-533-2794

By Express Mail Receipt No. EL749133655US on July 24, 2001

Box Patent Application Commissioner for Patents Washington, D.C. 20231

Re:

Inventor:

Ting He

Serial Number:

To be assigned

Filed: Title:

July 24, 2001

SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH NOBLE METAL CATALYST COATINGS AND THERMAL SPRAYING

METHODS FOR PRODUCING THE SAME

Dear Sir:

For filing, we are enclosing the following in the above-referenced application for United States Letters Patent:

- 1. Utility Patent Application Transmittal Form PTO/SB/05
- 2. Fee Transmittal Form PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
- 3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

The Declaration and Power of Attorney will be filed at a later date.

A Certificate of Filing by Express Mail follows on page 2 of this cover letter.

Please acknowledge receipt of the foregoing by stamping the enclosed postcard and returning it to us for our file.

Very truly yours,

Edwin M. Baranowski

Ilwa M. Baraname.

Enclosures

PTO/SB/17 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

\$)	1	,474
•	•	3 T / T

Complete if Known				
Application Number				
Filing Date	24 July 2001			
First Named Inventor	Ting He			
Examiner Name				
Group Art Unit				
Attorney Docket No.	300/00/_131015			

METHOD OF PAYMENT	FEE CALCULATION (continued)					
1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:	3. ADDITIONAL FEES					
Deposit Deposit	Large Small					
Account Number 16–2326	Entity Entity Fee Fee Fee Fee Fee Fee Description	Fee Paid				
Deposit Danton I hai abb Managia 9 Barbhaga	Code (s) Code (s)					
Account Name Porter Wright Morris & Arthur	105 130 205 65 Surcharge - late filing fee or oath					
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
Applicant claims small entity status. See 37 CFR 1.27	139 130 139 130 Non-English specification					
2. Payment Enclosed:	147 2,520 147 2,520 For filing a request for ex parte reexamination					
Check Credit card Money Cother	112 920° 112 920° Requesting publication of SIR prior to Examiner action					
FEE CALCULATION	113 1,840° 113 1,840° Requesting publication of SIR after Examiner action					
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month					
Large Entity Small Entity	116 390 216 195 Extension for reply within second month					
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month					
101 710 201 355 Utility filing fee 710	118 1,390 218 695 Extension for reply within fourth month					
108 320 208 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month					
107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal					
108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal					
114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing					
SUBTOTAL (1) (\$) 710	138 1,510 138 1,510 Petition to institute a public use proceeding					
30B101AL(1) ((\$)	140 110 240 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES	141 1,240 241 620 Petition to revive - unintentional					
Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)					
Total Claims 43 -20** = 23 × 18 = 414 Independent	143 440 243 220 Design issue fee					
Claims 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	144 600 244 300 Plant issue fee					
Multiple Dependent 270 = 270	122 130 122 130 Petitions to the Commissioner					
Large Entity Small Entity	123 50 123 50 Processing fee under 37 CFR 1.17(q)					
Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt					
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)					
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))					
104 270 204 135 Multiple dependent claim, if not paid 109 80 209 40 ** Reissue independent claims over original patent	149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))					
110 18 210 9 ** Reissue claims in excess of 20	179 710 279 355 Request for Continued Examination (RCE)					
and over original patent	169 900 169 900 Request for expedited examination of a design application					
SUBTOTAL (2) (\$) 764	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3)					

SUBMITTED BY			Complete (If applicable)		
Name (Print/Type)	Edwip-M. Baranowski	Registration No. (Attorney/Agent)	27,482	Telephone	614-227-2188
Signature	Flu M. Baran	we.		Date	24 July 2001

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Box Patent Application Commissioner for Patents

Inventor:

Ting He

Title:

SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH NOBLE METAL

CATALYST COATINGS AND THERMAL SPRAYING METHODS FOR PRODUCING THE

SAME

July 24, 2001

Page 2

CERTIFICATE OF FILING BY EXPRESS MAIL

I hereby certify that this Application United States Letters Patent comprising:

- 1. Utility Patent Application Transmittal, PTO/SB/05
- 2. Fee Transmittal, PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
- 3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

accompanied by an itemized postcard receipt, is being deposited with the United States Postal Service by Express Mail Receipt No. EL749133655US in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231 on July 24, 2001.

Edwin M. Baranowski

Elm M. Barnaml